5 May 1964

MEMORANDUM FOR THE RECORD

SUBJECT: Trip Report for Period of 20-25 April 1964

Comparator, at the prior to its	25X1
being sent to the However,	25 X 1
during a discussion with on 16 April	25 X 1
it was concluded that the visit would be necessary to determine	
progress made in the laser measuring unit and instrument Cabri-	
cation. The laser measuring device was provided by	25 X 1
The progress made in the use	25 X 1
of the laser was quite disappointing and as a result	25 X 1
is no longer involved in the project. Counting could be accom-	
plished only in one direction and the bidirectional capability	
seemed to be dependent on a rather simple check of identical	
excult cards. This was to be accomplished during the week of	05)//
So April. suggested that an order be placed for	25X1
the Ferranti fringe and detecting heads to serve as a back-up	
measuring system to the laser unit. After a telephone conver-	
sation with all agreed that this would be a	25 X 1
reasonable approach. As far as the rest of the instrument was	
concerned, about 90% of the circuit boards were complete but	
the bays still had to be wired and the mechanical assembly of	
the instrument would take about two weeks for completion. Since	
the Ferranti fringe system will require approximately six weeks	
for delivery, it is presumed that this period is more than	
adequate for the assembly of the instrument. Approximately two	
or three days are required for elimement of the fringes thus	
the instrument should be ready for a plant inspection by the first week in June. has scheduled a trip to the	25X1
for either the first or second week in May. were present at the on Tuesday.	25 X 1
	25 X 1 25 X 1
21 April. comments are attached to this report.	20/1
On Wednesday a trip was made to the	25X1
for the purpose of determining the feasibility	25X1
of incorporating electronic alinement of transparencies into the	20/(1
Multiple Image Correlator. I met with	25X
manage to the financial management of the second of the se	23/

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and discussed the MIC in detail with them. Their conclusions were	
that it may be cheaper to design an instrument with this in mind	
rather than attempting to modify existing equipment. They saw	
no reason however, why electronic alinement through error signals	
relayed to servomotors would not increase the alinement capability	
of the MIC. In conclusion, it was their feeling that at least	
a 1/3 better alinement could be accomplished by this method.	
I also met the General Manager of the	25X1
services in photointerpretation for deter-	25X1
mining the economic capabilities of an area. This program would	20/(1
be based on analyses of areas in California engaged in various	
activities such as agriculture, mining, etc., and correlated to	
other areas of interest. stated that he would be in	25X1
Washington around mid-May and would like to discuss the project	20/(1
with and possibly Mr. Lundahl.	25X1
	25/1
Note: The only letter I could find in our files was dated	
22 March 1963 and signed by It covered the	25 X 1
economic and cultural potential surveys of areas of interest.	
On Thursday, 23 April, I visited the	25 X 1
of Los Angeles, California. This visit was made in response to	
request for a study of remote writing equipment.	25 X 1
I met a who demonstrated the various	25 X 1
types of equipment available. The regional representation for	
the East is	25 X 1
At present,	25 X 1
has a GSA contract which would simplify for us	25X1
the acquisition of supplies and parts for these items. Brochures	20/(1
are included with this report. Other commanies to be considered	
are	25X1
and	20/(1
giju	
To Alm with a second of the se	057/4
In the aftermoon a visit was made to the	25X1
to determine if any of their	25 X 1
panels produced enough light to be used as light sources in	
viewing tables and if there was a possibility for differential	
lighting within the panel area. Essentially, the panels are of	
Low light intensity anywhere from 1 1/2 foot-lamberts to a	
maximum of 15 foot-lamberts. They usually operate on a 115 V,	
400 cycle current, produce approximately 6 foot-lamberts of	
illumination and came in various shades of green. Green phosphor	
was chosen because of its uniform grain size, other colors had	
	2EV
that he will have a display of the American Helicanter Conict (Aug.)	25X
that he will have a display at the American Helicopter Society (AHS) meeting at the Sheraton-Park or Shoreham Hotel during April 14-15.	

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Incidentally, circular luminescent panels have been installed in Harold's Club in Reno in case anyone is interested in them.

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was scheduled and held on The meeting with a statement should be Friday morning. According to forthcoming through him concerning the status of the RFP for the MIC during the week of 3 May 1964. Other items discussed were the P.I. console, which now offers four motorized film drives, a capability for viewing stereo images separated 1 1/2 to 84 inches, a stereo microscope that has a zoom capability of 5x-18x with 5x, 10x and 15x eyepieces and can resolve 2001/mm at 32x. Cost for two motorized film transof the consoles range from for four motorized film transports - both with a 27 inch take-up loop. The 84 inch take-up loop capability costs approximately \$400 extra. The measuring capability of the table is + 10 microns over a one inch square in both the x and y directions. Another item was a dual viewing microscope mounted on a two position light table. Operator and assistant were seated opposite to one another and viewed the same area. This possibly could be used for training or demonstration. Also mentioned was the feasibility of adding a 3x-6x front projection screen to the P.I. console to view areas at low magnification prior to any detailed high magnification search with the microscope which is adjacent to the screen. Screen dimensions could be approximately 30" x 30"/

Friday afternoon was spent with

While there we discussed, with

the difficulties we were having with the Spectro-Physics laser
unit. After a thorough explanation of the unit by

he suggested methods of acheiving the best fringe display to
obtain an accurate count through the detecting head and associated
electronics.

On Saturday, I met with and discussed the alinement procedures with them.

At this time I learned that two Spectro-Physics representatives had been there Friday night to loan them one of their laser units and to aline it for them. Fringe count worked in one direction on one axis but the circuit of the bidirectional counter would not continue the count in the other direction. These circuits would have to be checked and corrected. This circuit would be duplicated, when corrected, for the other axis. The divide by six counter circuits was completed and operational however a duplicate would be made and used for the other axis. As has been

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stated, the bidirectional counter was operational in one direction and, from the information received from all that remained was a rather simple circuit check to make it operational.

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Development Branch, P&DS